

Fig. 42 is a sectional view of a HMD disclosed in JP-A No. Hei 05-303055;

Fig. 43 is a sectional view of a HMD disclosed in JP-A No. Hei 07-191274;

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Fig. 44 is a sectional view of a HMD disclosed in JP-A No. Hei 07-191274;

Fig. 45 is a sectional view of a HMD disclosed in JP-A No. Hei 10-239631; and

Fig. 46 is a conceptual view of a videophone system disclosed in JP-A No. Hei 06-133311.

TELETYPE

IN THE CLAIMS

Please replace Claims 1 and 3 as filed with amended Claims 1 and 3, which are set forth below. (Appendix B, which is enclosed herewith, shows how original Claims 1 and 3 were amended to produce amended Claims 1 and 3. In Appendix B, the portions being added are underlined; and the portions being deleted are enclosed in brackets.)

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1. (Amended) An imaging optical system comprising:
a first optical system having a part around its reference axis for converging a light beam emerging from an optional point in a predetermined range on a first conjugate plane and diverging at a divergence angle of 10° or greater; and

a second optical system having a part around its reference axis for diverging the light beam emerging from the first optical system;

wherein an enlarged image similar to an image in a predetermined range on the first conjugate plane is formed on a second conjugate plane; and

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CONT.*
distance S_1 along the reference axis of the first optical system between the first optical system and the second optical system, distance S_2 along the reference axis of the second optical system between the second optical system and the conjugate plane B, distance L_1 to a first converging point where distance along the reference axis of the first optical system in all sections of the light beam including principal rays is the longest, distance L_2 to a second converging point where distance along the reference axis of the first optical system in a section of the light beam different from the aforesaid section is the shortest, distance L_{11} relating to a light beam emerging from a position the nearest to the reference axis of the first optical system among the distances L_1 to the first converging point, distance L_{21} relating to a light beam emerging from a position the nearest to the reference axis of the first optical system among the distances L_2 to the second converging point, distance L_{1n} relating to a light beam emerging from a position the remotest from the reference axis of the first optical system among the distances L_1 , distance L_{2n} relating to a light beam emerging from a position the remotest from the reference axis of the first optical system among the distances L_2 , distance D_1 relating to an optional light beam emerging from a predetermined

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range on the first conjugate plane and along the optional light beam between the first and the second optical system, and distance D2 along the light beam between the second optical system and the second conjugate plane satisfy conditions expressed by:

$$S1 \leq L11 \leq S1 + S2$$

$$S1 \leq L21 \leq S1 + S2$$

$$L11/L1n < 0.25$$

$$0 < L21/L2n < 1.5$$

$$D1 < D2$$

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3. (Amended) The imaging optical system according to claim 1, wherein the imaging optical system is capable of either an imaging function to form an enlarged image of the first conjugate plane on the second conjugate plane or an imaging function to form a reduced image of the second conjugate plane on the first conjugate plane.

Please add the following new claims:

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11. (New) The imaging optical system according to claim 1, wherein the second optical system consists of a single optical element.

12. (New) The imaging optical system according to claim 11, wherein the single optical element is a single reflecting optical element.

13. (New) The imaging optical system according to claim